Field Crops Research, 28 (1992) 355–357
Elsevier Science Publishers B.V., Amsterdam

Author Index

Addae, P.C., Collis-George, N. and Pearson, C.J. (Sydney, N.S.W., Australia)
Over-riding effects of temperature and soil strength on wheat seedlings under minimum and conventional tillage 103
Amir, J. (Mobile Post Negev, Israel) and Sinclair, T.R. (Gainesville, FL, USA)
A model of the temperature and solar-radiation effects on spring wheat growth and yield 47
A model of water limitation on spring wheat growth and yield 59
Andrade, F.H., Uhart, S.A., Arguissain, G.G. and Ruiz, R.A. (Buenos Aires, Argentina)
Radiation use efficiency of maize grown in a cool area 345
Araus, J.L., *see* Labraña, X. and Araus, J.L.
Arguissain, G.G., *see* Andrade, F.H. et al.
Ashokan, P.K., *see* George, S. et al.
Basford, K.E., *see* Ivory, D.A. et al.
Brinkman, M.A., *see* Salman, A.A. and Brinkman, M.A.
Brummett, D.L., *see* Guinn, G. and Brummett, D.L.
Buckner, P., *see* Reddy, K.C. et al.
Buddenhagen, I., *see* White, J.W. et al.
Card, G., *see* Longnecker, N.E. et al.
Cathey, G.W., *see* Snipes, C.E. and Cathey, G.W.
Collis-George, N., *see* Addae, P.C. et al.
Connor, D.J., *see* Sadras, V.O. et al.
De Datta, S.K., *see* Dingkuhn et al.
DeLacy, I.H., *see* Ivory, D.A. et al.
Dingkuhn, M., De Datta, S.K., Javellana, C., Pamplona, R. and Schnier, H.F. (Manila, Philippines)
Effect of late-season N fertilization on photosynthesis and yield of transplanted and direct-seeded tropical flooded rice
I. Growth dynamics 223
II. A canopy stratification study 235
Drew, M.C. (College Station, TX, USA)
Book review of *Environmental Stress in Plants*, by J.H. Cherry 265
Enwezor, W.O., *see* Njoku, B.O. and Enwezor, W.O.
Gale, M.D., *see* Youssefian, S. et al.
Gardner, F.P. (Palo Alto, CA, USA)
Book review of *Green Manure in Rice Farming* 263
George, S., Ashokan, P.K. and Wahid, P.A. (Trichur, India)
An alternate ^{35}S-labelling technique for evaluation of S-utilization of applied sulphur by flooded rice 335
Graham, R.D., *see* Longnecker, N.E. et al.
Guinn, G. and Brummett, D.L. (Phoenix, AZ, USA)
Influence of defruiting on the abscisic acid and indole-3-acetic acid contents of cotton leaves 257
Isirimah, N.O., *see* Zuofa, K. et al.
Ivory, D.A. (Bangkok, Thailand), Kaewmeechai, S. (Chiang Mai, Thailand), DeLacy, I.H. and Basford, K.E. (Qld., Australia)
Analysis of the environmental component of genotype×environment interaction in crop adaptation evaluation 71

Javellana, C., *see* Dingkuhn, M. et al.
Kaewmeeachai, S., *see* Ivory, D.A. et al.
Kirby, E.J.M., *see* Youssefian, S. et al.
Labraña, X. and Araus, J.L. (Barcelona, Spain)
Effect of foliar applications of silver nitrate and ear removal on carbon dioxide assimilation in wheat flag leaves during grain-filling 149
Langer, R.H.M. (Christchurch, New Zealand)
Book review of *The Greenhouse Effect and Primary Productivity in European Agro-Ecosystems*, by J. Goudriann et al. 267
Longnecker, N.E., Graham, R.D. and Card, G. (Glen Osmond, S.A., Australia)
Effects of manganese deficiency on the pattern of tillering and development of barley (*Hordeum vulgare* c.v. Galleon) 85
Mann, I.G., *see* Pearson, C.J. et al.
Marani, A., *see* Saranga, Y. et al.
Muchow, R.C. (St. Lucia, Qld., Australia)
Effect of water and nitrogen supply on radiation interception and biomass accumulation of kenaf (*Hibiscus cannabinus*) in a semi-arid tropical environment .. 281
NeSmith, D.S. (Griffin, GA, USA) and Ritchie, J.T. (East Lansing, MI, USA)
Effects of soil water-deficits during tassel emergence on development and yield component of maize (*Zea mays*) 251
Njoku, B.O. (Umuahia, Nigeria) and Enwezor, W.O. (Nsukka, Nigeria)
Differential response of four cassava cultivars (*Manihot esculenta*) to liming of two acid soils in pot and field experiments 163
Pamplona, R., *see* Dingkuhn, M. et al.
Pearson, C.J., Mann, I.G. and Zhang, Z.-H. (Sydney, N.S.W., Australia)
Changes in root growth within successive wheat crops in a cropping cycle using minimum and conventional tillage 117
Pearson, C.J., *see also* Addae, P.C. et al.
Pino, C., *see* White, J.W. et al.
Reddy, K.C., Visser, P. and Buckner, P. (Niamey, Niger)
Pearl millet and cowpea yields in sole and intercrop systems, and their after-effects on soil and crop productivity 315
Rios, B., M.J., *see* White, J.W. et al.
Ritchie, J.T., *see* NeSmith, D.S. and Ritchie, J.T.
Rudich, J., *see* Saranga, Y. et al.
Ruiz, R.A., *see* Andrade, F.H. et al.
Sadras, V.O. (Parkville, Vic., Australia), Whitfield, D.M. (Tatura, Vic., Australia) and Connor, D.J. (Parkville, Vic., Australia)
Regulation of evapotranspiration, and its partitioning between transpiration and soil evaporation by sunflower crops: a comparison between hybrids of different stature . 17
Salman, A.A. (Basrah, Iraq) and Brinkman, M.A. (Madison, WI, USA)
Association of pre- and post-heading growth traits with grain-yield in oats 211
Saranga, Y., Rudich, J. and Marani, A. (Rehovot, Israel)
The relations between leaf water potential of cotton plants and environmental and plant factors 39
Schnier, H.F., *see* Dingkuhn, M. et al.
Scott, T.W., *see* White, J.G. and Scott, T.W.
Sinclair, T.R., *see* Amir, J. and Sinclair, T.R.
Singh, P. (Andhra Pradesh, India)
Influence of water-deficits on phenology, growth and dry-matter allocation in chickpea (*Cicer arietinum*) 1

Singh, S.P., *see* White, J.W. et al.
Snipes, C.E. and Cathey, G.W. (Stoneville, MS, USA)
Evaluation of defoliant mixtures in cotton 327
Svirezhev, Y.M. (Budapest, Hungary)
Book review of *Simulation of Ecophysiological Processes of Growth in Several Annual Crops*, by F.W.T. Penning de Vries et al. 268
Tariah, N.M., *see* Zuofa, K. et al.
Uhart, S.A., *see* Andrade, F.H. et al.
Visser, P., *see* Reddy, K.C. et al.
Wahid, P.A., *see* George, S. et al.
White, J.G. (Fayetteville, AR, USA) and Scott, T.W. (Ithaca, NY, USA)
Effects of perennial forage-legume living mulches on no-till winter wheat and rye 135
White, J.W., Singh, S.P., Pino, C. (Cali, Colombia), Rios, B., M.J. (Rionegro, Colombia) and Buddenhagen, I. (Davis, CA, USA)
Effects of seed size and photoperiod response on crop growth and yield of common bean 295
Whitfield, D.M. (Tatura, Vic., Australia)
Effects of temperature and ageing on CO_2 exchange of pods of oilseed rape (*Brassica napus*) 271
Whitfield, D.M., *see also* Sadras, V.O. et al.
Youssefian, S., Kirby, E.J.M. and Gale, M.D. (Norwich, UK)
Pleiotropic effects of the GA-insensitive Rht dwarfing genes in wheat
1. Effects on development of the ear, stem and leaves 179
2. Effects on leaf, stem, ear and floret growth 191
Zhang, Z.-H., *see* Pearson, C.J. et al.
Zuofa, K., Tariah, N.M. and Isirimah, N.O. (Port Harcourt, Nigeria)
Effects of groundnut, cowpea and melon on weed control and yields of intercropped cassava and maize 309

Field Crops Research, 28 (1992) 358–361
Elsevier Science Publishers B.V., Amsterdam

Subject Index

Alfalfa, *see Medicago*
Arachis
Effects of smother crops on intercropped cassava and maize 309
Avena
Association of growth traits with grain-yield in oats 211
Barley, *see Hordeum*
Bean, *see Phaseolus*
Brassica
Effects of temperature and ageing on CO_2 exchange of oilseed rape 271
Cassava, *see Manihot*
Chemical defoliants
Evaluation of defoliant mixtures in cotton 327
Chickpea, *see Cicer*
Cicer
Influence of water-deficits on *Cicer arietinum* 1
Clover, *see Trifolium*
Common bean, *see Phaseolus*
Cotton, *see Gossypium*
Cowpea, *see Vigna*
Drought, *see* Water regime
Environmental factors
Influence of water-deficits on *Cicer arietinum* 1
Relations between leaf water potential and environmental and plant factors 39
Model of temperature and solar-radiation effects on spring wheat 47
Environmental component of G×E interaction in crop adaptation 71
Effects of temperature and soil strength on wheat seedlings 103
Response of *Manihot* to liming of acid soils 163
Effects of soil water-deficits on *Zea* 251
Environmental Stress in Plants (book review) 265
Effects of temperature and ageing on CO_2 exchange of oilseed rape 271
Effect of water and nitrogen supply on kenaf in a semi-arid environment 281
Effects of seed size and photoperiod on common bean 295
Radiation use efficiency of maize grown in a cool area 345
Fertilizers, *see* Nutrient dynamics
Genetics
Pleiotropic effects of Rht dwarfing genes in wheat. 1. Effects on development 179
Pleiotropic effects of Rht dwarfing genes in wheat. 2. Effects on growth 191
Association of growth traits with grain-yield in oats 211
Genotype, *see* Variety trials
Gossypium
Relations between leaf water potential and environmental and plant factors 39
Influence of defruiting on ABA and IAA contents of cotton leaves 257
Evalution of defoliant mixtures in cotton 327
Greenhouse effect
The Greenhouse Effect and Primary Productivity in European Agro-Ecosystems (book review) 267

Groundnut, *see Arachis*
Harvest index
Effects of seed size and photoperiod on common bean 295
Helianthus
Evaporation by sunflower crops: a comparison between hybrids 17
Hibiscus
Effect of water and nitrogen supply on kenaf in a semi-arid environment 281
Hordeum
Mn deficiency and *Hordeum* development 85
Intercropping
Effects of smother crops on intercropped cassava and maize 309
Millet and cowpea effects on soil and crop productivity 315
Irradiance, *see* Environmental factors
Irrigation, *see* Water regime
Kenaf, *see Hibiscus*
Maize, *see Zea*
Management practices, *see also* Intercropping
Effects of temperature and soil strength on wheat seedlings 103
Root growth in wheat under minimum and conventional tillage 117
Effects of legume mulches on winter wheat and rye 135
Late-season N fertilization on flooded rice. I. Growth dynamics 223
Late-season N fertilization on flooded rice. II. Canopy stratification 235
Green Manure in Rice Farming (book review) 263
Millet and cowpea effects on soil and crop productivity 315
Evaluation of defoliant mixtures in cotton 327
Manihot
Response of *Manihot* to liming of acid soils 163
Effects of smother crops on intercropped cassava and maize 309
Medicago
Effects of legume mulches on winter wheat and rye 135
Minerals, *see* Nutrient dynamics
Modelling
Model of temperature and solar-radiation effects on spring wheat 47
Model of water limitation on spring wheat 59
Simulation of Ecophysiological Processes of Growth in Several Annual Crops (book review) 268
Radiation use efficiency of maize grown in a cool area 345
Moisture stress, *see* Water regime
Mulches, *see* Management practices
Nutrient dynamics
Mn deficiency and *Hordeum* development 85
Effects of legume mulches on winter wheat and rye 135
Late-season N fertilization on flooded rice. I. Growth dynamics 223
Late-season N fertilization on flooded rice. II. Canopy stratification 235
Effect of water and nitrogen supply on kenaf in a semi-arid environment 281
Alternate ^{35}S-labelling technique for evaluation of S-utilization 335
Oats, *see Avena*
Oilseed rape, *see Brassica*
Oryza
Late-season N fertilization on flooded rice. I. Growth dynamics 223
Late-season N fertilization on flooded rice. II. Canopy stratification 235

Green Manure in Rice Farming (book review) 263
Alternate ^{35}S-labelling technique for evaluation of S-utilization 335
Pearl millet, *see Pennisetum*
Pennisetum
Millet and cowpea effects on soil and crop productivity 315
Photoperiod, *see* Environmental factors
Physiology
Evaporation by sunflower crops: a comparison between hybrids 17
Model of water limitation on spring wheat 59
Mn deficiency and *Hordeum* development 85
Effects of temperature and soil strength on wheat seedlings 103
Root growth in wheat under minimum and conventional tillage 117
Effect of silver nitrate and ear removal on CO_2 assimilation in wheat 149
Pleiotropic effects of Rht dwarfing genes in wheat. 1. Effects on development 179
Pleiotropic effects of Rht dwarfing genes in wheat. 2. Effects on growth 191
Late-season N fertilization on flooded rice. II. Canopy stratification 235
Effects of soil water-deficits on *Zea* 251
Influence of defruiting on ABA and IAA contents of cotton leaves 257
Effects of temperature and ageing on CO_2 exchange of soilseed rape 271
Effects of seed size and photoperiod on common bean 295
Alternate ^{35}S-labelling technique for evaluation of S-utilization 335
Productivity
Model of temperature and solar-radiation effects on spring wheat 47
Model of water limitation on spring wheat 59
Association of growth traits with grain-yield in oats 211
Late-season N fertilization on flooded rice. I. Growth dynamics 223
Effects of soil water-deficits on *Zea* 251
The Greenhouse Effect and Primary Productivity in European Agro-Ecosystems (book review) 267
Effects of seed size and photoperiod on common bean 295
Effects of smother crops on intercropped cassava and maize 309
Millet and cowpea effects on soil and crop productivity 315
Rice, *see Oryza*
Rye, *see Secale*
Secale
Effects of legume mulches on winter wheat and rye 135
Soil conditions
Model of water limitation on spring wheat 59
Effects of temperature and soil strength on wheat seedlings 103
Root growth in wheat under minimum and conventional tillage 117
Response of *Manihot* to liming of acid soils 163
Effects of soil water-deficits on *Zea* 251
Sunflower, *see Helianthus*
Temperature, *see* Environmental factors
Tillage, *see* Management practices
Trifolium
Effects of legume mulches on winter wheat and rye 135
Triticum
Model of temperature and solar-radiation effects on spring wheat 47
Model of water limitation on spring wheat 59
Effects of temperature and soil strength on wheat seedlings 103

Root growth in wheat under minimum and conventional tillage 117
Effects of legume mulches on winter wheat and rye 135
Effect of silver nitrate ear removal on CO_2 assimilation in wheat 149
Pleiotropic effects of Rht dwarfing genes in wheat. 1. Effects on development 179
Pleiotropic effects of Rht dwarfing genes in wheat. 2. Effects on growth 191
Variety trials
Evaporation by sunflower crops: a comparison between hybrids 17
Environmental component of G×E interaction in crop adaptation 71
Response of *Manihot* to liming of acid soils 163
Association of growth traits with grain-yield in oats 211
Effects of seed size and photoperiod on common bean 295
Vigna
Effects of smother crops on intercropped cassava and maize 309
Millet and cowpea effects on soil and crop productivity 315
Water regime
Influence of water-deficits on *Cicer arietinum* 1
Evaporation by sunflower crops: a comparison between hybrids 17
Relations between leaf water potential and environmental and plant factors 39
Model of water limitation on spring wheat 59
Effects of soil water-deficits on *Zea* 251
Effect of water and nitrogen supply on kenaf in a semi-arid environment 281
Wheat, *see Triticum*
Yield, *see* Productivity
Zea
Effects of soil water-deficits on *Zea* 251
Effects of smother crops on intercropped cassava and maize 309
Radiation use efficiency of maize grown in a cool area 345